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switching between different particle collectors within the collection system. The collection system can include curved components within the flow path similar to curved portion of the collection system shown in Fig. 1. A particular preferred collection system for particle production systems operating in a continuous collection mode is described in copending and commonly assigned U.S. Patent application serial number 09/107,729, now U.S. Patent 6,270,732 to Gardner et al., entitled "Particle Collection Apparatus And Associated Methods," incorporated herein by reference. A batch collection system for use with the improved reaction system is described in copending and commonly assigned U.S. Patent application serial number 09/188,770, filed on November 9, 1998, entitled "Metal Oxide Particles," incorporated herein by reference. The configuration of the reactant injection components and the collection system can be reversed such that the particles are collected at the top of the apparatus.

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In the Claims

Please substitute the following amended claims for those currently pending:

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6. (Once Amended) The collection of particles of claim 1 wherein less than about 1 particle in  $10^6$  have a diameter greater than about four times the average diameter of the collection of particles.

7. (Once Amended) The collection of particles of claim 1 wherein less than about 1 particle in  $10^6$  have a diameter greater than about two times the average diameter of the collection of particles.

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23. (Once Amended) The battery of claim 17 wherein less than about 1 active particle in  $10^6$  have a diameter greater than about four times the average diameter of the collection of active particles.

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